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on August 30, 2005

By: 

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Yao, et al.

Application No.: 10/655,767

Filed: 09/03/2003

For: MULTI-CHANNEL OPTICAL
TRANSCIVER MODULE

Examiner: Dupuis, Derek

Art Unit: 2883

**RESPONSE TO ELECTION AND
RESTRICTIONS**

Dated: 8/10/2005

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313

Dear Examiner Dupuis,

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In response to the Election/Restrictions in the Office Action dated 8/10/2005, the
applicant elects Species A (Claims 1-4 and 6-11).

A clean version of the elected claims are summarized on the separate pages below.

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IN THE CLAIMS:

1. A multi-channel optical transceiver module, comprising:

a) a plurality of optical connector mountings;

b) a plurality of optical subassemblies (OSA) each configured to be fixedly mounted
5 in one of the optical connector mountings, wherein each of the OSA is configured to
transform a first optical signal to a first electrical signal and to transform a second processed
electrical signal to a second optical signal;

c) a signal processing IC unit electrically coupled to the plurality of OSA, configured
to process the first electrical signal to produce a first processed electrical signal and to
10 process a second electrical signal to produce the second processed electrical signal; and

d) an electrical connector unit electrically coupled to the signal processing IC unit,
configured to output the first processed electrical signal and to transmit the second electrical
signal to the signal processing IC unit.

2. The multi-channel optical transceiver module of claim 1, further comprising a Micro
15 Processing Unit configured to monitor the operation status of the plurality of OSA and to
transmit the operation status information to the signal processing IC unit.

3. The multi-channel optical transceiver module of claim 2, further comprising an
20 EEPROM configured to store the operation status information.

4. The multi-channel optical transceiver module of claim 1, further comprising an ESD
grounding unit configured to shield electromagnetism interference from the electrical
connector unit.

25 Claim 5. Cancelled.

6. The multi-channel optical transceiver module of claim 1, further comprising a handle
coupled to the plurality of optical connector mountings for easy plug-in or pullout of the
30 multi-channel optical transceiver module.

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7. The multi-channel optical transceiver module of claim 1, further comprising an indicator light configured to indicate the operation status of the multi-channel optical transceiver module.

5 8. The multi-channel optical transceiver module of claim 1, wherein the signal processing IC unit is disposed on a printed circuit board.

10 9. The multi-channel optical transceiver module of claim 1, wherein at least one of the plurality of optical connector mountings includes a snap-on mechanism to enable one of the OSA to be fixedly mounted in the optical connector mountings.

10. The multi-channel optical transceiver module of claim 1, wherein at least one of the plurality of optical connector mountings includes a groove to receive one of the OSA.

15 11. The multi-channel optical transceiver module of claim 1, wherein the plurality of OSA are configured to transform four channels of optical signals to electrical or to transform four channels of processed electrical signals to optical signals.

20 Claims 12-20. Cancelled.

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CONCLUSION

Applicants believe that the above discussion is fully responsive to the Office Action.

If for any reasons the Examiner believes a telephone conference would in any way expedite resolution of the issues raised in this appeal, the Examiner is invited to telephone the undersigned at 650-856-8600.

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Respectfully submitted,



Xin Wen
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